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(71)Applicant : **FUJITSU LTD**

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(72)Inventor : **IWAYAMA NAOMI**

OISHI KAZUHIRO

KII TAKAHIRO

OKUYAMA KIYOUKO

(54) **COMMUNICATION SYSTEM**

(57)Abstract:

PROBLEM TO BE SOLVED: To simplify the operation to receive messages by eliminating the input operation of ID number and password in making access to a mail server or a news server.

SOLUTION: When a storage medium is detected to be mounted on a reader/ writer 3 coincidence/noncoincidence of a form of the storage medium with the form of a storage medium 6 is judged and when the form of the storage medium mounted on the reader/writer 3 is judged to coincide with the form of the storage medium 6 a communication application program 61 and personal information 62 are read from the storage medium 6 to a work area the communication application program 61 is executed and an access permission request is transmitted to a server 1 and when transmission of the ID number and the password is requested from the server 1 the personal information 62 preliminarily stored as a response message in the work area is transmitted to the server 1 by a client 2.

CLAIMS

[Claim(s)]

[Claim 1] When personal information provided from a client characterized by comprising the following which requires an access permit to a server is in agreement with personal information memorized to a server A communications system which receives electronic-media data which accesses to a server made that access from a client should be

permitted and has been memorized to a server.

A device which loads with a personal information storage which memorizes information having contained personal information and electronic-media data and write memory information.

A discriminating means which distinguishes whether a storage with which this device was loaded is said personal information storage.

A means which reads personal information memorized by it when it distinguishes that said medium is said personal information storage by this discriminating means.

A means to provide read personal information to a server when an access permit is required of a server and offer of personal information is required from a server and a means which receives electronic-media data memorized to a server and writes this data in said personal information storage.

[Claim 2] When personal information provided from a client characterized by comprising the following which requires an access permit to a server is in agreement with personal information memorized to a server A communications system which receives electronic news which accesses to a server made that access from a client should be permitted and has been memorized to a server.

A device which load with and write a personal information storage which said personal information is memorized and can record information included electronic news.

A discriminating means which judges whether a medium with which this device was loaded is said personal information storage.

A means which reads personal information memorized by it when it judges that said medium is said personal information storage by this discriminating means.

When an access permit is required of a server and offer of personal information is required from a server A means to read personal information on said personal information storage and to provide to a server a means which receives electronic news from a server and writes this electronic news in said personal information storage and a means which writes a utilization history which accessed said server in said personal information storage.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the communications system for communicating with a server computer.

[0002]

[Description of the Prior Art] An E-mail is for exchanging messages via electronic PO Box provided in the mail server which uses a computer and transmitting volition. Since the user of the computer increased by the spread of computer networks and the ease of treating of the computer improved by the spread of graphical user interface the user layer of such an E-mail did not stop only at the adult but has attained to even the child.

[0003] Although the request for disclosure of the message in PO Box is received from a

user and a message is indicated to the user since it is also considered that they transmit a request for disclosure with others in the disguise of a person in question a certain structure for protecting privacy is required for an e-mail service. Then in an e-mail service the password for attesting an ID number for the operator to identify a user and this is published and these are stored in the database linked to a mail server. And when the access permit demand to a mail server is received the alteration operation of an ID number and a password is required from the transmitting side of the access permit demand. When the ID number and password which were entered according to this are in agreement with what is memorized in said database a user is identified and the message stored in PO Box concerning the user is indicated.

[0004] The client computer connected with the news server for which an electronic news system uses a computer and this news server by the network. It is a system which consists of (calling it a client hereafter) and the message transmitted to said news server from the client is memorized and the message memorized according to the request for disclosure from a client is indicated. Therefore a message can be mutually contributed by the users of an electronic news system and the contributed message can be read. In said message the ID number of the user who transmitted it is to be indicated. The user received beforehand issue of the password for the ID number by the operator of an electronic news system and its attestation and when the input was required from a news server he had inputted from the input means of a keyboard etc. The electronic news system is recording the user's utilization history in each client and can distinguish and display the message which the user already read based on this and the message which is not yet read.

[0005]

[Problem(s) to be Solved by the Invention] Thus it is necessary to keep secret the ID number and password in connection with protection of privacy so that it may not be known by others. That is what writes down the ID number and the password on the place which touches others' eyes must avoid. If you forget one of these and these it becomes impossible for a user to access a mail server and he is inconvenient. It becomes a big burden especially for a child to memorize and manage such an ID number and a password. However when a user is limited to a child if it argues that privacy is protected not from so important a problem but from such a viewpoint the alteration operation of the ID number demanded whenever it accesses and a password can say that the receiving operation of an E-mail makes it difficult superfluously.

[0006] When sharing one PO Box within the group who limited Member ID number and a password with the same Member of all the members will be shared and the problem that the burden for those managements increases arises. It is troublesome for all the users that the alteration operation of an ID number and a password is required again whenever it accesses a mail server. Since a user's utilization history is held to the client when accessing an electronic news system from a different client said utilization history cannot be referred to and it cannot be displayed [distinguish the already read message and the message which is not yet read and]. This invention was made in view of this situation and is ****. It is offer of the communications system which can exclude the alteration operation of the purpose and a password and can receive a message easily.

[0007]

[Means for Solving the Problem] When this invention of a communications system

concerning the 1st invention corresponds with personal information personal information provided from a client which requires an access permit to a server is remembered to be to a serverIt accesses to a server made that access from a client should be permittedand a communications system which receives electronic-media data memorized to a server is characterized by comprising the following:

A device which loads with a personal information storage which memorizes information having contained personal information and electronic-media dataand write memory information.

A discriminating means which distinguishes whether a storage with which this device was loaded is said personal information storage.

A means which reads personal information memorized by it when it distinguishes that said medium is said personal information storage by this discriminating means.

A means to provide read personal information to a server when an access permit is required of a server and offer of personal information is required from a serverand a means which receives electronic-media data memorized to a serverand writes this data in said personal information storage.

[0008]When this invention of a communications system concerning the 2nd invention corresponds with personal information personal information provided from a client which requires an access permit to a server is remembered to be to a serverIt accesses to a server made that access from a client should be permittedand a communications system which receives electronic news memorized to a server is characterized by comprising the following:

A device which load with and write a personal information storage which said personal information is memorized and can record information included electronic news.

A discriminating means which judges whether a medium with which this device was loaded is said personal information storage.

A means which reads personal information memorized by it when it judges that said medium is said personal information storage by this discriminating means.

When an access permit is required of a server and offer of personal information is required from a serverA means to read personal information on said personal information storageand to provide to a servera means which receives electronic news from a server and writes this electronic news in said personal information storageand a means which writes a utilization history which accessed said server in said personal information storage.

[0009]When a communications system of the 1st and 2nd inventions stores personal information in a personal information storage beforehandand reads said personal informationand an access permit is required of a server and presentation of personal information is required from a serverRead personal information is shown and time and effort of alter operation of personal information by a user is saved.

[0010]

[Embodiment of the Invention]Drawing 1 is a block diagram showing the composition of the communications system concerning this invention. In a figure1 is a server which uses the computer which memorizes an individually-addressed message. The client 2 linked to the server 1 performs communications control processing concerning this invention using

a computer and receives an individually-addressed message from the server 1. The client 2 has connected with read-out and the write in device 3 which writes in read-out of the information memorized to the storage and the information on a storage. The client 2 has connected with the input device 5 which uses the mouse for giving directions concerning the monitor 4 and reception which display the message which received etc. On the other hand 6 is a storage which memorizes the personal information 62 on the communication application program 61 for performing communication with the server 1 an ID number a password etc. and is used loading read-out and the write in device 3.

[0011] The personal information 62 is not memorized by the storage 6 before the beginning of using. The user receives issue of the password corresponding to an ID number and this from the operator of the e-mail service. And in a series of procedure at the time of first-time access a user enters said ID number and a password from the input device 5. The client 2 memorizes the ID number and password which were given by the user as the personal information 62 to the storage 6. Henceforth when it reads the personal information 62 and memorizes it to the workspace (work memory) whenever the client 2 executes the communication application program 61 and the input of an ID number and a password is required from the server 1 the personal information 62 memorized as the response message is transmitted to the server 1.

[0012] Whenever it has made [whether read-out and the write in device 3 are loaded with the storage and] the client 2 that it should always supervise and was loaded with the storage when it distinguishes whether it is the storage 6 and distinguishes that it is the storage 6 the communication application program 61 and the personal information 62 are read and the communication application program 61 is executed.

[0013] Drawing 2 is a flow chart which shows the procedure of the communications control processing in the client 2. After powering on the client 2 supervises the state of read-out and the write in device 3 and it stands by until it is loaded with a storage. When it detects that read-out and the write in device 3 were loaded with the storage (S1) the form of the storage distinguishes whether it is in agreement with the form of the storage 6 (S2). Processing is ended when in agreement and it distinguishes. When in agreement with the form of the storage 6 and it distinguishes the communication application program 61 and the personal information 62 are read from said storage to workspace (S3) the communication application program 61 is executed and it accesses to the server 1 (S4). When an access permit demand is transmitted to the server 1 and transmission of an ID number and a password is specifically required from the server 1 by the communication application program 61 the personal information 62 memorized to workspace as the response message is transmitted to the server 1.

[0014] When it asks the server 1 whether the message will have reached the user newly if access to the server 1 is permitted (S5) and a reply that it has arrived is received the message is received it writes in said storage (S6) and access to the server 1 is ended (S7). And the procedure of performing the display and management of a message which were received is called (S8). In S5 when a reply that the new message has not arrived is received processing is moved to S7 access is ended and received a display and management of a message are performed. By the above composition a user's operation in the procedure of the communication application program 61 can be excluded and the message addressed to a user can be received easily.

[0015] Drawing 3 is a block diagram showing other composition of the communications

system concerning this invention. In a figure 17 is a news server which uses the computer which memorizes the given message. The client 18 linked to the news server 17 performs communications control processing concerning this invention using a computer and receives a message from the news server 17. The client 18 is provided with the following components.

[0016] 11 is a personal information storage which records the personal information 22 on the ID number for identifying the utilization history 21 and individual of an electronic news system, a password, etc. 12 is a personal information storage check part which inspects whether the personal information storage inserted in the device is the personal information storage 11. 13 is a read section which reads the contents currently recorded on the personal information storage 11. 14 is an electronic news system access part which accesses the news server 17 according to the contents read by the read section 13. If 15 has the updated information as a result of accessing by the electronic news system access part 14, it will be a writing part which writes the information in the personal information storage 11. 16 is a personal information storage preparing part which writes information, including ID for identifying an individual, etc., in the storage which is not a personal information storage and creates a personal information storage.

[0017] Drawing 4 is a flow chart which shows the procedure of the communications control processing in the client 18. After powering on, the client 18 stands by until it is loaded with a storage. The form of the storage distinguishes whether it is in agreement with the form of the personal information storage 11, the time (S11) of detecting having been loaded with the storage (S12). When in agreement and it distinguishes, communications control processing is ended. When in agreement with the form of the personal information storage 11 and it distinguishes, the utilization history 21 and the personal information 22 are accessed from said storage to the news server 17 with the read section 13 in workspace by read-out (S13) and the electronic news system access part 14 (S14). When an access permit demand is transmitted to the news server 17 and transmission of an ID number and a password is specifically required from the news server 17 by the electronic news system access part 14, the personal information 22 memorized to workspace as the response message is transmitted to the news server 17.

[0018] When it asks the news server 17 whether the new message will have arrived based on the read utilization history 21, if access to the news server 17 is permitted (S15) and a reply that it has arrived is received, the message is received and to said storage, writing (S16) and after writing a utilization history in said storage, further access to the news server 17 is ended (S17). And the procedure of performing the display and management of a message which were received is called (S18). When a reply that the new message has not arrived is received, processing is moved to S17, access is ended and received a display and management of a message are performed. When an intact storage is inserted in a device by the personal information storage preparing part 16, the input of personal information is required of a user, the inputted personal information is written in said storage and the personal information storage 11 is created.

[0019] By creating the personal information storage 11 which recorded the ID number and password for identifying an individual like the above and performing identification by inserting it in a device, a user becomes possible [using an electronic news system] without entering an ID number and a password from input devices such as a keyboard. Also when an electronic news system is accessed from which client by

recording the utilization history which accessed the electronic news system on a personal information storage where the past utilization history is reflected an electronic news system can be accessed.

[0020]

[Effect of the Invention] When personal information is beforehand stored in a personal information storage depending on this invention like the above an access permit is required of a server and presentation of personal information is required from a server. Since the personal information read from said personal information storage is shown and the time and effort of the alteration operation of the personal information by a user is saved, operation accessed to a server can be simplified.

[0021] Since the utilization history in an electronic news system is also recorded on the personal information storage, even if it accesses an electronic news system from which a client computer among two or more client computers access becomes possible where [same] the past utilization history is reflected.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is a block diagram showing the composition of the communications system concerning this invention.

[Drawing 2] It is a flow chart which shows the procedure of communications control processing.

[Drawing 3] It is a block diagram showing other composition of the communications system concerning this invention.

[Drawing 4] It is a flow chart which shows the procedure of communications control processing.

[Description of Notations]

- 1 Server
 - 2 Client
 - 3 Read-out and write in device
 - 5 Input device
 - 6 Storage
 - 11 Personal information storage
 - 12 Personal information storage check part
 - 13 Read section
 - 14 Electronic news system access part
 - 15 Writing part
 - 16 Personal information storage preparing part
 - 17 News server
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